

## Abstract

A base station includes: a data classification function for classifying data to be transmitted to terminals FWA and NWA into audio data and terminal-basis ordinary data and generating downstream communication traffic information; a queuing function for generating an ordinary data transmission queue and an audio data transmission queue from the classified data; a communication quality control parameter setting function for setting communication quality control parameters for the respective queues; a transmission and reception portion for transmitting data in the queues according to the communication quality control parameters at a time of transmission; a reception data detection function for acquiring upstream communication traffic information from reception data received from each of the terminals; and a communication quality control parameter control function for dynamically adjusting each of the communication quality control parameters in the communication quality control parameter setting function, based on the downstream and upstream communication traffic information.